

Energy per Passenger per Journey (MJ)

1200
1000
800
600
400
200
0

A 3D bar chart comparing the energy cost per passenger for different modes of transport. The y-axis represents 'Energy per Passenger per Journey (MJ)' from 0 to 1200. The x-axis lists the transport modes. The bars are color-coded: blue for Car, green for Airplane, red for Motorcycle, purple for Train, orange for Model S, teal for Passenger Hyperloop, and light blue for Passenger + Vehicle Hyperloop. The chart shows that Hyperloop modes are significantly more energy-efficient than traditional vehicles.

| Transport Mode | Energy per Passenger per Journey (MJ) |
|---|---------------------------------------|
| Car (30mpg, 2 passengers) | ~900 |
| Airplane (2011 Transport Energy Data Book) | ~1080 |
| Motorcycle (50mpg, 1 passenger) | ~1050 |
| Train (2011 Transport Energy Data Book) | ~950 |
| Model S (2 passengers) | ~340 |
| Passenger Hyperloop (70% occupancy) | ~110 |
| Passenger + Vehicle Hyperloop (70% occupancy) | ~320 |

- Car (30mpg, 2 passengers)
- Airplane (2011 Transport Energy Data Book)
- Motorcycle (50mpg, 1 passenger)
- Train (2011 Transport Energy Data Book)
- Model S (2 passengers)
- Passenger Hyperloop (70% occupancy)
- Passenger + Vehicle Hyperloop (70% occupancy)

Figure 1. Energy cost per passenger for a journey between Los Angeles and San Francisco for various modes of transport.